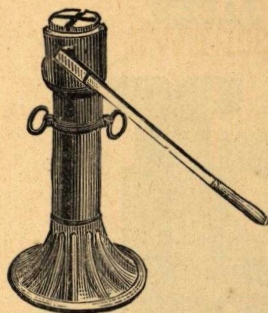
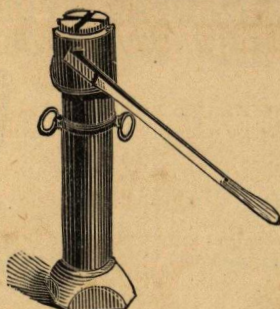


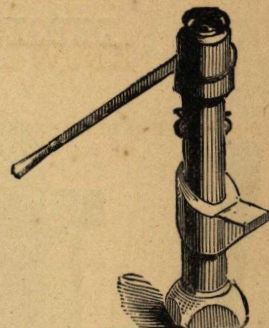
DUDGEON'S HYDRAULIC JACKS.



No. 1.



No. 2.



No. 3.

DESCRIPTION.

This Jack or Press appears to the eye, when depressed, a simple cylinder, and when elevated, one cylinder sliding within another. It is from two to eight or more inches in diameter, according to the power desired, with an enlarged head (attached to the inner cylinder, which is the ram), having a socket for the reception of the lever by which the force-pump is worked. The ram, with its head, contains just so much fluid as is required to fill the vacancy in the cylinder, caused by the raising of the ram in the act of lifting; and when this is accomplished, the water is returned into its original recess by a valve operated by the lever that works the pump. The force-pump and valves are contained inside the ram. The lever is detached, and may be put on at pleasure.

The ground-lifting attachment is a tube screwed into the lower side of the head, and passing down to the bottom of the press, outside of the cylinder, on the lower end of which is a claw that supports the weight to be raised.

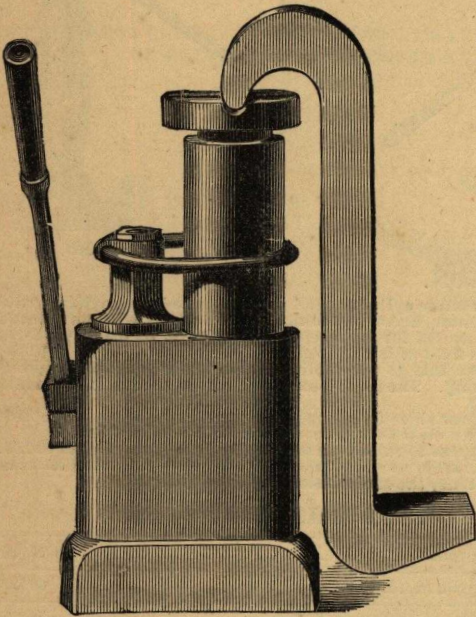
These Jacks are light, portable and of easy application, a press to raise four tons not weighing more than 50 lbs., and one to raise sixty tons, 200 lbs. They are all worked by the labor of one man, who is capable of raising ten tons, through a space of one foot, in one-and-a-half minutes, or sixty tons, the same distance, in ten minutes.

SIZES AND PRICES OF HYDRAULIC JACKS.

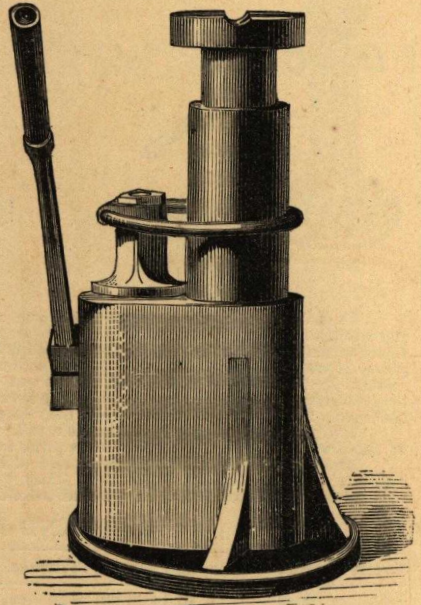
To lift or press 4 tons, and run out 12 inches, and lift from the ground.....	\$ 60 00
To lift or press 4 tons, and run out 24 inches, and lift from the ground.....	65 00
To lift or press 7 tons, and run out 12 inches.....	70 00
To lift or press 7 tons, and run out 24 inches.....	75 00
To lift or press 7 tons, and run out 12 inches, and lift from the ground.....	85 00
To lift or press 7 tons, and run out 12 inches, with wide base for locomotive shops.....	80 00
To lift or press 7 tons, and run out 18 inches, with wide base for locomotive shops.....	85 00
To lift or press 7 tons, and run out 24 inches, and lift from the ground.....	90 00
To lift or press 10 tons, and run out 12 inches.....	80 00
To lift or press 10 tons, and run out 18 inches.....	100 00
To lift or press 10 tons, and run out 12 inches, and lift from the ground.....	100 00
To lift or press 10 tons, and run out 12 inches, with wide base for locomotive shops.....	95 00
To lift or press 10 tons, and run out 18 inches, with wide base for locomotive shops.....	110 00
To lift or press 15 tons, and run out 12 inches.....	100 00
To lift or press 15 tons, and run out 12 inches, with wide base for locomotive shops.....	125 00
To lift or press 15 tons, and run out 12 inches, and lift from the ground.....	150 00
To lift or press 15 tons, and run out 18 inches, with wide base for locomotive shops.....	150 00
To lift or press 20 tons, and run out 12 inches, and lift from the ground.....	200 00
To lift or press 20 tons, and run out 12 inches, with wide base for locomotive shops.....	150 00
To lift or press 20 tons, and run out 12 inches.....	120 00
To lift or press 30 tons, and run out 9 inches.....	150 00
To lift or press 30 tons, and run out 12 inches.....	175 00
To lift or press 30 tons, and run out 9 inches, with wide base for locomotive shops.....	170 00
To lift or press 30 tons, and run out 12 inches, with wide base for locomotive shops.....	200 00
To lift or press 33 tons, and run out 12 inches, and lift from the ground.....	250 00
To lift or press 60 tons, and run out 9 inches, with cistern and force-pump outside.....	250 00
To lift or press 60 tons, and run out 12 inches.....	275 00
To lift or press 90 tons, and run out 9 inches, with cistern and force-pump outside.....	350 00
To lift or press 90 tons, and run out 12 inches.....	375 00
To lift or press 100 tons, and run out 12 inches.....	400 00
To lift or press 120 tons, and run out 7 inches.....	450 00

Larger sizes made to order.

DUDGEON'S HORIZONTAL HYDRAULIC JACKS.



CLAW, OR GROUND-LIFTING JACK.

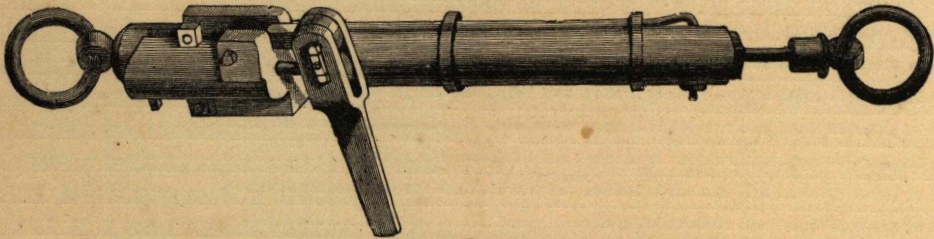


BROAD BASE, OR LOCOMOTIVE JACK.

10, 15 or 20 tons of this style, to run out two feet, made to order.

These Jacks run out their entire length, horizontal or vertical, and will run out six inches further than the old kind (see page 321), while standing the same height, that is to say, a Jack to run out eighteen inches will measure little if any more (when down) than one that runs out twelve inches. The claw comes much nearer the ground, is made of wrought iron, and can be taken off when not needed; they are less liable to get out of order, are easily repaired, and are considered a far superior Jack by all who have used them. Prices and sizes same as the old kind.

HYDRAULIC PULLING JACKS.



These Hydraulic Pulling Jacks are for stretching rigging, testing chains and ropes, pulling stumps, hoisting heavy weights, etc., in engine rooms or other places, especially where there is but little space.

These Jacks differ from the others by their being extended when commencing to work, and then being pumped together. The force-pump is attached to the side, and is worked by a lever, the same as the Hydraulic Jack.

SIZES AND PRICES.

To stretch 2 feet and pull 8 tons.....	\$200 00
To stretch 2 feet and pull 10 tons.....	240 00
To stretch 2 feet and pull 15 tons.....	300 00
To stretch 2 feet and pull 20 tons.....	350 00
To stretch 2 feet and pull 30 tons.....	450 00